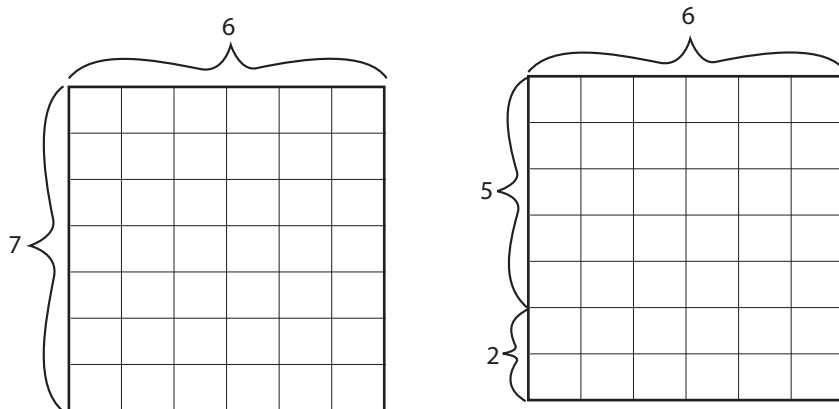




Math Inspection: Rectangles, Arrays, Area, and the Distributive Property

One way to show multiplication is with a **rectangular array**.

1. Look at this example:

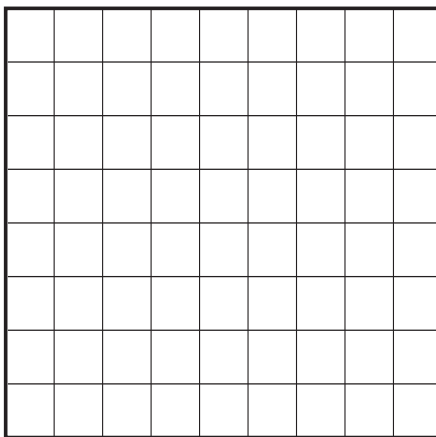


- a. Explain in words what you see happening.

- b. Explain in mathematical symbols what is happening.

2. Below is an 8×9 array.

a. Break it up into a new multiplication problem.

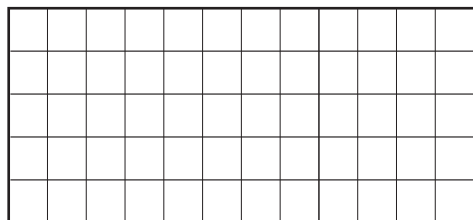


b. Explain in words what you see happening.

c. Explain using mathematical symbols what is happening.

3. Below is a 5×12 array.

a. Break it up into a new multiplication problem.



b. Explain in words what you see happening.

c. Explain using mathematical symbols what is happening.

4. Fill in the missing numbers below.

a. $6 \times 7 = 6 \times 4 + 6 \times \underline{\quad}$

b. $9 \times 8 = \underline{\quad} \times 8 + 4 \times 8$

c. $\underline{\quad} \times 7 = 2 \times 7 + 5 \times 7$

d. $6 \times 7 = 5 \times 7 + \underline{\quad} \times 7$

e. $7 \times \underline{\quad} = 5 \times 6 + 2 \times 6$

f. $9 \times 9 = 5 \times 9 + \underline{\quad} \times 9$

g. $8 \times 7 = \underline{\quad} \times 7 + 5 \times 7$